

Appl. No. 10/009.910

Attorney Docket No. 81839.0107

Amdt. Dated _____

Customer No.: 26021

Reply to Office Action of August 21, 2003

REMARKS/ARGUMENTS

Claims 1-18 were pending in the Application. By this Amendment, claims 1, 2 and 9 are being amended to improve their form, and claims 11-18 are being canceled, to advance the prosecution of the Application. No new matter is involved.

The courtesy of a telephone interview recently granted the undersigned by Examiner Song is gratefully acknowledged. During the telephone interview, the Advisory Action of August 21, 2003 was discussed, including particularly statements made on pages 3 and 4 of the Advisory Action that certain features which Applicant has argued are not being claimed. As a result of the discussion, it was indicated by the Examiner that amendment of the claims to include a feature discussed on page 3 of the Advisory Action would probably be viewed favorably by the Examiner in terms of allowing the application. Such feature relates to compensation of the weak point of doping nitrogen by doping with carbon to obtain a synergistic effect.

As a result of this discussion with the Examiner, claims 1 and 9 are being amended herein in order to recite such feature. Claim 1 defines a method for producing a silicon single crystal, wherein the silicon single crystal is pulled while doping with carbon and controlling V/G to have an N-region over an entire plane of the crystal in which the silicon single crystal is grown in accordance with Czochralski method. As amended, claim 1 further recites ", the silicon single crystal being pulled at a rate greater than the rate of pulling a silicon single crystal with no carbon doping". Similar comments apply to claim 9 which defines a silicon wafer, which contains carbon of 0.1 ppma or more and has an N-region over an entire plane thereof. As amended, claim 9 additionally recites ", and which has been pulled at a rate greater than the rate of pulling a silicon single crystal with no carbon doping". As so amended, claims 1 and 9 are submitted to clearly distinguish

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patentably over the prior art for the reasons set forth in Applicants' Response to Final Office Action of August 6, 2003. In particular, the feature in accordance with the invention of compensation of the weak point of doping nitrogen by doping with carbon to obtain a synergistic effect, as argued therein, is now set forth in independent claims 1 and 9.

Claims 2-8 depend, directly or indirectly, from claim 1 and contain all of the limitations thereof. Similarly, claim 10 depends from and contains all of the limitations of claim 9. Therefore, such claims are also submitted to clearly distinguish patentably over the art.

Claims 11-18 have been cancelled.

In conclusion, claims 1-10 are believed to be allowable over the art for the reasons discussed above. Therefore, reconsideration and allowance are respectfully requested.

In view of the foregoing, it is respectfully submitted that the application is in condition for allowance. Reexamination and reconsideration of the application, as amended, are requested.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at the Los Angeles, California telephone number (213) 337-6700 to discuss the steps necessary for placing the application in condition for allowance.

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If there are any fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 50-1314.

Respectfully submitted,
HOGAN & HARTSON L.L.P.

DRAFT

Date: [MONTH #, ####]

By: _____

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